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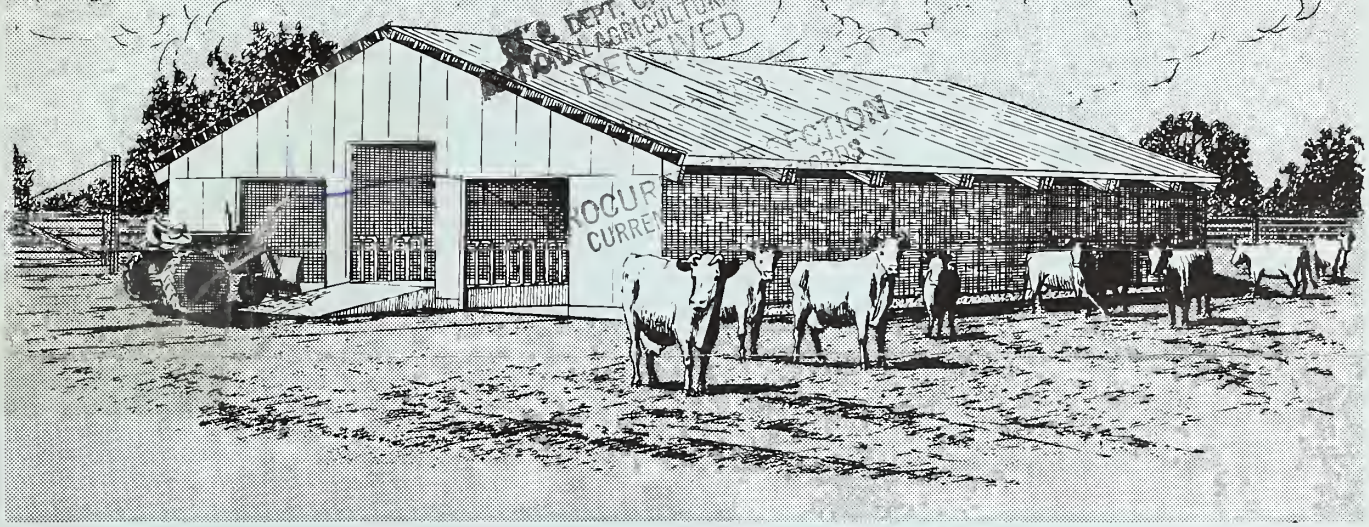
DAIRY BARN ... pole-frame construction

COOPERATIVE FARM BUILDING
Plan No. 6112
(2 SHEETS)
PLAN EXCHANGE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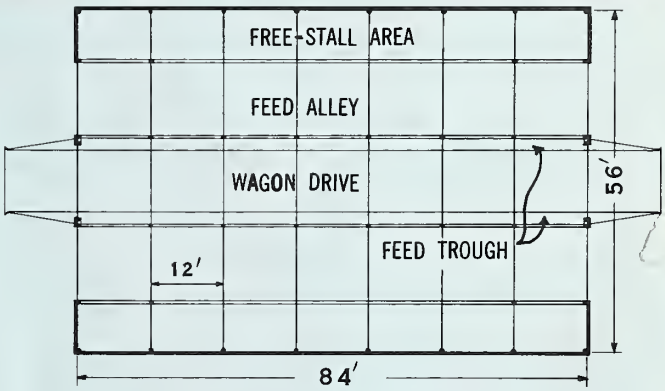
Free-stall dairy systems are popular in most sections of this country. This plan suggests the arrangement and method of construction of this type of barn with a drive-through alley. How it would fit into a complete dairy system depends on the diaryman and on applicable regulations.

This free-stall barn is 84 feet long by 56 feet wide and provides stall space for 42 dairy cattle. The length of the barn may vary in units of 12 feet. Six stalls are added, or subtracted, for each unit of length. Three overhead doors at each end of the barn permit cleaning the feed alleys with a tractor scraper and feeding from a self-unloading wagon on an elevated drive-through alley.

Ventilation is provided by wide slot openings between the rafters under the sidewall eaves and by alley doorways in the end walls. In warm areas a continuous slot ventilator could be installed along the ridge of the building for additional air movement.

Construction is pole-type, using pole-supported heavy rafters. The working drawings provide details on bracing, fasteners, and materials. For durability and ease of cleaning, the alleys and feed trough are constructed of concrete. These troughs provide 4 feet of feeding space per cow.



The roof is constructed of corrugated sheet metal; the siding may be wood or metal, applied vertically. All other construction materials are wood. For durability, poles and other wood members in contact with the ground or with manure must be pressure treated with a preservative.

Working drawings may be obtained from the extension agricultural engineer at your State university. There may be a small charge to cover cost of printing.

If you do not know the location of your State university, send your request to Agricultural Engineer, Extension Service, U.S. Department of Agriculture, Washington, D.C. 20250. He will forward your request to the correct university.

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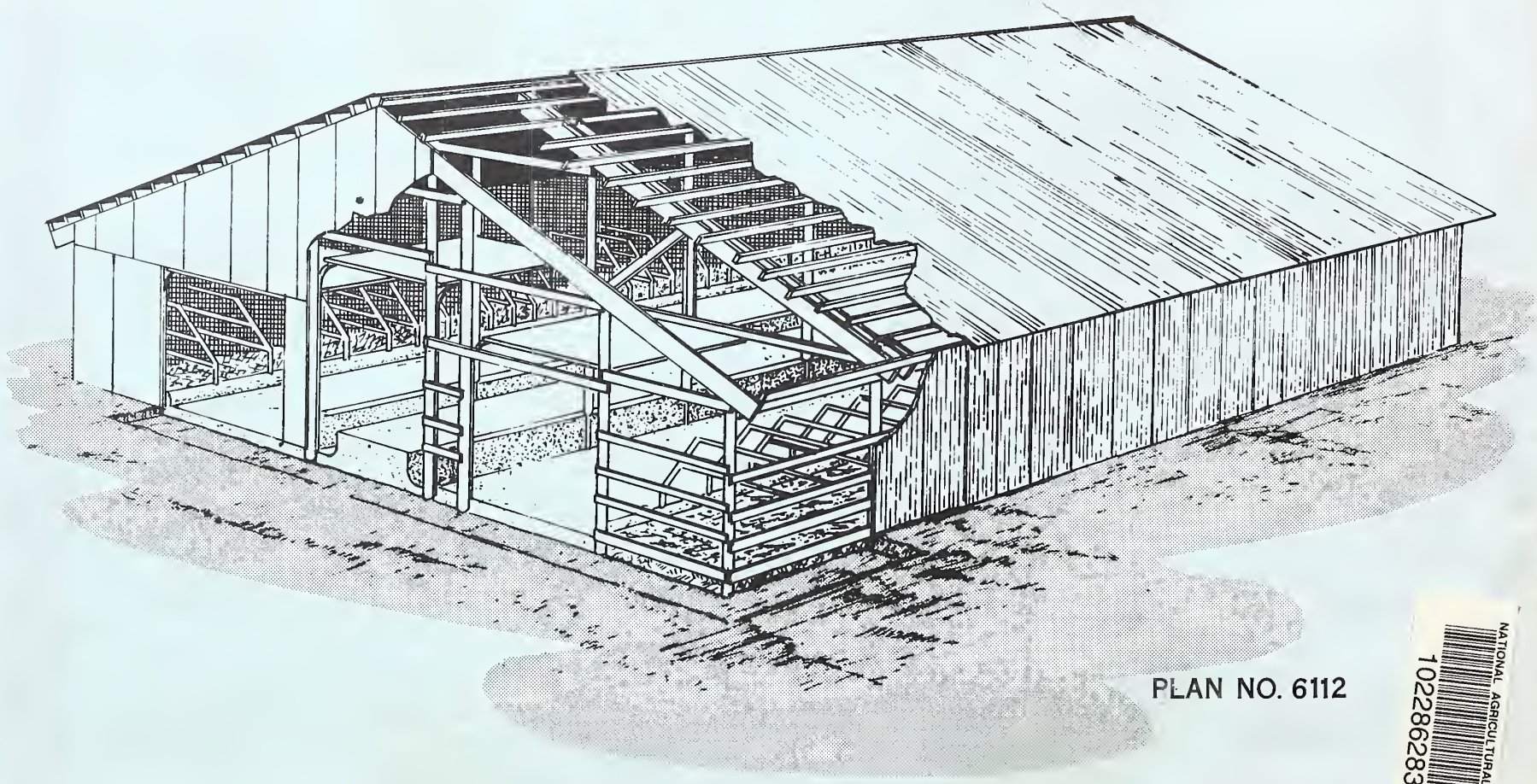
CUTAWAY VIEW OF BARN



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